2/13 O/PE #6

Serial Number: 09/892,206

CRF Processing Date: 2/26/2002
Edited by: /?
Verified by: /? (STIC staff)

☐ Changed a file from non-ASCII to ASCII

ENTERED

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/892,206

DATE: 02/26/2002
TIME: 17:29:27

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\02262002\I892206.raw

```
 4 <110> APPLICANT: Brennan, Thomas J.
 5        Matthews, William
 6        Moore, Mark
 8 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING ANAPHYLATOXIN
 9        C3A GENE DISRUPTIONS
12 <130> FILE REFERENCE: R-171
14 <140> CURRENT APPLICATION NUMBER: US 09/892,206
15 <141> CURRENT FILING DATE: 2001-06-26
17 <150> PRIOR APPLICATION NUMBER: US 60/215,467
18 <151> PRIOR FILING DATE: 2000-06-29
20 <150> PRIOR APPLICATION NUMBER: US 60/244,083
21 <151> PRIOR FILING DATE: 2000-10-26
23 <160> NUMBER OF SEQ ID NOS: 7
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 2657
29 <212> TYPE: DNA
30 <213> ORGANISM: Mus musculus
32 <400> SEQUENCE: 1
33 agggagagtc tgcccacaag ttttttgtata ttttctcact gaggcatcta ttcagtttgg 60
34 gcagcagaca ctgagcagaa cgtagcacgg caatgcttgg tagcaatgcc tgtccggcca 120
35 gcactcagaa gacggaggca ggagaatcat agcttccagt cagcctcttc tacaatatag 180
36 tcagttggaa gtcagccagc ttagacaaca tggagagcct gtgccgaaag ccactgggta 240
37 agcccgaatc tcagtagcag agagctgccc agggtgcgta ctgcaaaaaa aaaacctcaa 300
38 acaacagaag tagggaggtg taaaataaag tgtaggggggg tggaatttaa gctgatgtgg 360
39 acttccaaat aaagttacct tttagatacc tatttaaatc aatagcatag acctgaaact 420
40 gtctatcaga aaatgtgtct attctgagga aggagtgcta acgaggttct gtgaggggggg 480
41 cctctggctt tgagagggtg taccatcaca taagactcct aaaagcacat acttttataa 540
42 attcaccatg agctttaaca tcttctttgt catttcgcag actgagccat ggagtctttc 600
43 gatgctgaca ccaattcaac tgacctacac tcacggcctc tgtttcaacc ccaagacatt 660
44 gcctccatgg tcattcttgg tctcacttgt ctattgggac tgctaggcaa tgggctggtg 720
45 ctgtgggtag ctggcgtaaa gatgaagacg accgtgaaca cagtctggtt cctccatctc 780
46 accctggccg atttcctctg ctgcctctcc ttgcccttct ccttggctca cctgattctc 840
47 caaggacact ggccctatgg cttgttcctg tgcaaactta tcccatccat cattattctc 900
48 aacatgtttg ccagtgtctt cctgcttact gccattagcc tggaccgatg tctgatagta 960
49 cataagccaa tctggtgcca gaatcatcga aacgtgagaa ccgccttcgc catctgtgga 1020
50 tgtgtctggg tggtagcctt tgtgatgtgt gtgcccgtat ttgtataccg tgatctgttc 1080
51 attatggaca atcgcagtat atgtagatat aattttgatt cctccaggtc atatgattat 1140
52 tgggactacg tgtacaaact aagtctacca gaaagcaatt ctactgataa ctccactgct 1200
53 cagctaactg gacatatgaa tgacaggtca gctccttcct ctgtacaggc aagggattac 1260
54 ttttggacag ttaccactgc cctccagtca cagccattcc taacatctcc tgaagactca 1320
55 ttctctctag attcagcaaa ccaacaaccc cattatggtg gaaagcctcc taatgtcctc 1380
56 acagccgccg tacccagcgg gtttcctgtt gaagatcgta aatccaatac actgaacgct 1440
```

```
57 gacgctttc tctctgctca cacagaactt ttccctactg cttctagtgg tcatttatac 1500
58 ccctatgatt tccaggggga ttatgttgac caattcacgt atgacaatca tgtgccgaca 1560
59 ccgctgatgg caataaccat cacaaggctg gtggtgggct tcctggtgcc gttttttcatc 1620
60 atggtaattt gttacagcct catcgtcttc agaatgcgaa aaaccaactt caccaagtct 1680
61 cggaacaaaa cctttcgggt ggctgtggct gtggtcactg tctttttttat ctgctggact 1740
62 ccataccatc ttgtcggagt cctgctattg attactgatc cagaaagttc cttgggggaa 1800
63 gctgtgatgt cctgggacca catgtccatt gctttagcat ctgccaatag ttgcttcaac 1860
64 cctttcctgt atgccctctt ggggaaagac tttaggaaga aagcaagaca gtctataaag 1920
65 ggcattctgg aagcagcctt cagcgaagag ctcacgcact ctaccaactg tacccaagac 1980
66 aaagcctctt caaaaagaaa caatatgagt acagatgtgt gaagatgtgg ccctgggaac 2040
67 ctaagcagag ttctcaggtg aacagtgatg gatgacatgt gagcaggaca ctttagacaa 2100
68 tttggcgact ctcagagaaa ggtctcttat tgacatcagc atcatttgaa aacattaaag 2160
69 atgcaaaatt tcaagcccca tcccagatgt gttgactcag aatctctggc ccatgggacc 2220
70 agtgttttaa caggccttct tgtttccatc agtgttaagt tttacctcat ttggcttagt 2280
71 ctattcccat ccctgactac accatgtgca atgaataact ttttcatctg ttttcagtat 2340
72 tcttttttttt tccttagcat catctaaact tctagtttgc atggaaggct gctcttattg 2400
73 ttctgaatgg aagatattca tttattgtac agttttgtgg tggtgacaag tgatttttaa 2460
74 gtggggaaag agacacagta agaaaagatc tatgaaagca gggagtgttg agttagagtt 2520
75 tgacagaaca cagtgccaaa tgccacccac taaaagcaac ctgagataat tccagtgttc 2580
76 atgtgagcaa gtgagcacag atacacataa acactttcct actcctggag tgttttagaa 2640
                                                                    2657
77 gttgtagctt ggagctc
```

```
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 477
81 <212> TYPE: PRT
82 <213> ORGANISM: Mus musculus

84 <400> SEQUENCE: 2
85 Met Glu Ser Phe Asp Ala Asp Thr Asn Ser Thr Asp Leu His Ser Arg
86  1               5                  10                  15
87 Pro Leu Phe Gln Pro Gln Asp Ile Ala Ser Met Val Ile Leu Gly Leu
88              20                  25                  30
89 Thr Cys Leu Leu Gly Leu Leu Gly Asn Gly Leu Val Leu Trp Val Ala
90          35                  40                  45
91 Gly Val Lys Met Lys Thr Thr Val Asn Thr Val Trp Phe Leu His Leu
92      50                  55                  60
93 Thr Leu Ala Asp Phe Leu Cys Cys Leu Ser Leu Pro Phe Ser Leu Ala
94 65                  70                  75                  80
95 His Leu Ile Leu Gln Gly His Trp Pro Tyr Gly Leu Phe Leu Cys Lys
96                  85                  90                  95
97 Leu Ile Pro Ser Ile Ile Ile Leu Asn Met Phe Ala Ser Val Phe Leu
98                  100                 105                 110
99 Leu Thr Ala Ile Ser Leu Asp Arg Cys Leu Ile Val His Lys Pro Ile
100             115                 120                 125
101 Trp Cys Gln Asn His Arg Asn Val Arg Thr Ala Phe Ala Ile Cys Gly
102     130                 135                 140
103 Cys Val Trp Val Val Ala Phe Val Met Cys Val Pro Val Phe Val Tyr
104 145                 150                 155                 160
105 Arg Asp Leu Phe Ile Met Asp Asn Arg Ser Ile Cys Arg Tyr Asn Phe
106                 165                 170                 175
107 Asp Ser Ser Arg Ser Tyr Asp Tyr Trp Asp Tyr Val Tyr Lys Leu Ser
```

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\02262002\I892206.raw**

```
108                   180              185                190
109 Leu Pro Glu Ser Asn Ser Thr Asp Asn Ser Thr Ala Gln Leu Thr Gly
110           195          200              205
111 His Met Asn Asp Arg Ser Ala Pro Ser Ser Val Gln Ala Arg Asp Tyr
112     210              215          220
113 Phe Trp Thr Val Thr Thr Ala Leu Gln Ser Gln Pro Phe Leu Thr Ser
114 225              230              235                240
115 Pro Glu Asp Ser Phe Ser Leu Asp Ser Ala Asn Gln Gln Pro His Tyr
116           245                  250              255
117 Gly Gly Lys Pro Pro Asn Val Leu Thr Ala Ala Val Pro Ser Gly Phe
118           260              265              270
119 Pro Val Glu Asp Arg Lys Ser Asn Thr Leu Asn Ala Asp Ala Phe Leu
120     275              280              285
121 Ser Ala His Thr Glu Leu Phe Pro Thr Ala Ser Ser Gly His Leu Tyr
122     290              295              300
123 Pro Tyr Asp Phe Gln Gly Asp Tyr Val Asp Gln Phe Thr Tyr Asp Asn
124 305              310              315                320
125 His Val Pro Thr Pro Leu Met Ala Ile Thr Ile Thr Arg Leu Val Val
126           325              330              335
127 Gly Phe Leu Val Pro Phe Phe Ile Met Val Ile Cys Tyr Ser Leu Ile
128           340              345              350
129 Val Phe Arg Met Arg Lys Thr Asn Phe Thr Lys Ser Arg Asn Lys Thr
130     355              360              365
131 Phe Arg Val Ala Val Ala Val Val Thr Val Phe Phe Ile Cys Trp Thr
132     370              375              380
133 Pro Tyr His Leu Val Gly Val Leu Leu Leu Ile Thr Asp Pro Glu Ser
134 385              390              395                400
135 Ser Leu Gly Glu Ala Val Met Ser Trp Asp His Met Ser Ile Ala Leu
136           405              410              415
137 Ala Ser Ala Asn Ser Cys Phe Asn Pro Phe Leu Tyr Ala Leu Leu Gly
138           420              425              430
139 Lys Asp Phe Arg Lys Lys Ala Arg Gln Ser Ile Lys Gly Ile Leu Glu
140     435              440              445
141 Ala Ala Phe Ser Glu Glu Leu Thr His Ser Thr Asn Cys Thr Gln Asp
142     450              455              460
143 Lys Ala Ser Ser Lys Arg Asn Asn Met Ser Thr Asp Val
144 465              470              475
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 200
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Targeting vector
155 <400> SEQUENCE: 3
156 cgaggttctg tgaggggggc ctctggcttt gagagggtgt accatcacat aagactccta 60
157 aaagcacata cttttataaa ttcaccatga gctttaacat cttctttgtc atttcgcaga 120
158 ctgagccatg gagtctttcg atgctgacac caattcaact gacctacact cacggcctct 180
159 gtttcaaccc caagacattg                                          200
161 <210> SEQ ID NO: 4
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/892,206

DATE: 02/26/2002
TIME: 17:29:27

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\02262002\I892206.raw

```
162 <211> LENGTH: 200
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Targeting vector
169 <400> SEQUENCE: 4
170 ggcttgttcc tgtgcaaact tatcccatcc atcattattc tcaacatgtt tgccagtgtc 60
171 ttcctgctta ctgccattag cctggaccga tgtctgatag tacataagcc aatctggtgc 120
172 cagaatcatc gaaacgtgag aaccgccttc gccatctgtg gatgtgtctg ggtggtagcc 180
                                                                      200
173 tttgtgatgt gtgtgcccgt
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 197
177 <212> TYPE: DNA
178 <213> ORGANISM: Mus musculus
180 <400> SEQUENCE: 5
181 cctccatggt cattcttggt ctcacttgtc tattgggact gctaggcaat gggctggtgc 60
182 tgtgggtagc tggcgtaaag atgaagacga ccgtgaacac agtctggttc ctccatctca 120
183 ccctggccga tttcctctgc tgcctctcct tgcccttctc cttggctcac ctgattctcc 180
                                                                      197
184 aaggacactg gccctat
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 439
188 <212> TYPE: DNA
189 <213> ORGANISM: Mus musculus
191 <400> SEQUENCE: 6
192 gccgaaagcc actgggtaag cccgaatctc agtagcagag agctgcccag ggtgcgtact 60
193 gcaaaaaaaa aacctcaaac aacagaagta gggaggtgta aaataaagtg taggggggtg 120
194 gaatttaagc tgatgtggac ttccaaataa agttaccttt tagataccta tttaaatcaa 180
195 tagcatagac ctgaaactgt ctatcagaaa atgtgtctat tctgaggaag gagtgctaac 240
196 gaggttctgt gagggggcc tctggctttg agagggtgta ccatcacata agactcctaa 300
197 aagcacatac ttttataaat tcaccatgag ctttaacatc ttctttgtca tttcgcagac 360
198 tgagccatgg agtctttcga tgctgacacc aattcaactg acctacactc acggcctctg 420
                                                                      439
199 tttcaacccc aagacattg
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 295
203 <212> TYPE: DNA
204 <213> ORGANISM: Mus musculus
206 <400> SEQUENCE: 7
207 ggcttgttcc tgtgcaaact tatcccatcc atcattattc tcaacatgtt tgccagtgtc 60
208 ttcctgctta ctgccattag cctggaccga tgtctgatag tacataagcc aatctggtgc 120
209 cagaatcatc gaaacgtgag aaccgccttc gccatctgtg gatgtgtctg ggtggtagcc 180
210 tttgtgatgt gtgtgcccgt atttgtatac cgtgatctgt tcattatgga caatcgcagt 240
211 atatgtagat ataattttga ttcctccagg tcatatgatt attgggacta cgtgt 295
```

2/26/02

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/892,206

DATE: 02/26/2002
TIME: 17:29:28

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\02262002\I892206.raw**

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/892,206

DATE: 02/14/2002
TIME: 16:30:59

Input Set : A:\R171 sequence listing for submission.txt
Output Set: N:\CRF3\02142002\I892206.raw

Does Not Comply
Corrected Diskette Needed

```
 4 <110> APPLICANT: Brennan, Thomas J.
 5        Matthews, William
 6        Moore, Mark
 8 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING ANAPHYLATOXIN
 9        C3A GENE DISRUPTIONS
12 <130> FILE REFERENCE: R-171
14 <140> CURRENT APPLICATION NUMBER: US 09/892,206
15 <141> CURRENT FILING DATE: 2001-06-26
17 <150> PRIOR APPLICATION NUMBER: US 60/215,467
18 <151> PRIOR FILING DATE: 2000-06-29
20 <150> PRIOR APPLICATION NUMBER: US 60/244,083
21 <151> PRIOR FILING DATE: 2000-10-26
23 <160> NUMBER OF SEQ ID NOS: 7
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

```
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 295
203 <212> TYPE: DNA
204 <213> ORGANISM: Mus musculus
206 <400> SEQUENCE: 7
207 ggcttgttcc tgtgcaaact tatcccatcc atcattattc tcaacatgtt tgccagtgtc  60
208 ttcctgctta ctgccattag cctggaccga tgtctgatag tacataagcc aatctggtgc 120
209 cagaatcatc gaaacgtgag aaccgccttc gccatctgtg gatgtgtctg ggtggtagcc 180
210 tttgtgatgt gtgtgcccgt atttgtatac cgtgatctgt tcattatgga caatcgcagt 240
211 atatgtagat ataattttga ttcctccagg tcatatgatt attgggacta cgtgt       295
```

E--> 215 (1)

file://C:\Crf3\Outhold\VsrI892206.htm

2/14/02

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/892,206

DATE: 02/14/2002
TIME: 16:31:00

Input Set : **A:\R171 sequence listing for submission.txt**
Output Set: **N:\CRF3\02142002\I892206.raw**

L:215 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:295 SEQ:7